



Operation and Safety Manual



Light Duty; Belt-Driven; Manual Operation

GPR

Belt Driven Slicers

DO NOT ATTEMPT TO OPERATE THIS MACHINE UNTIL YOU HAVE READ AND UNDERSTOOD THIS OPERATION AND SAFETY MANUAL.

SAFETY ISSUES



NEVER ATTEMPT TO OPERATE THIS MACHINE WITHOUT READING THE OPERATING MANUAL

1. **NEVER** touch this machine without training and authorisation from your supervisor.
2. Machine **MUST BE** on solid, level bench/table.
3. Guards **MUST BE** in place before plugging in and turning on machine.
4. **ALWAYS** use the three-pronged plug provided.
5. **NEVER** use your hand to hold food stuffs in place on the meat table.
6. **NEVER** touch the slicer blade when it is rotating.
7. **KEEP** hands, arms, hair and loose clothing **CLEAR** of all moving parts.
8. Should the slicer jam, **SWITCH OFF AND UNPLUG** before removing the obstruction.
9. **SWITCH OFF AND UNPLUG** the machine from its power source before cleaning, sanitising or servicing.
10. **USE ONLY** the attachments provided by the manufacturer and designed for this machine.

YOUR SAFETY IS OUR PRIMARY CONCERN

DECLARATION OF CONFORMITY

is built in conformity with the provisions of:

EN335-2-14	Standard for safety of household or similar electrical equipment
EN335/1	Standard for safety of household or similar electrical equipment
1907/2006 Reach	Registration evaluation authorisation and restriction of chemicals in industry
Rule CEn. 1935-2004	For the materials and things destined to come into contact with food

2004/108/EEC	Directive on Electromagnetic Compatibility (EMC)
RAEE2002/96/EEC	Directive for electrical and electronic waste
2002/95/EEC	(RoHS - Restriction of Hazardous Substances).

Introduction

Overview

This Operation and Safety Manual has been prepared to introduce you to the Brice Model GPR Series slicers. It explains the operation, cleaning and maintenance of the slicer in simple, clear terms and with an emphasis on your safety.

Throughout the Manual procedures are supported by illustrations showing the parts involved and the recommended safe method of handling those parts.

A word to the wise

This Manual is really two sets of instructions in one – some sections are relevant to all Brice slicers, while other sections only concern a particular slicer or range of slicers.

Make sure that you read this Manual carefully so that you are familiar with the features and procedures that are unique to the slicer that came with it.

How this Manual is arranged

This Manual is made up of four sections:

- Introduction - which explains the Manual, itself, safety issues associated with using a slicer, gives a brief introduction to the features and components of the slicer and steps you through the installation of the machine;
- Operation – explains the use of the slicer;
- Cleaning – explains the procedures for keeping the slicer clean; and
- Maintenance – details those procedures that you can perform to ensure the trouble-free operation of the slicer.
- Trouble-shooting – a quick reference chart to help you solve some of the problems you might encounter with the Model GPR.

Conventions and Symbols used in this Manual

To reduce confusion, and to highlight important points and safety matters, we have established some standard terms and symbols:

- “slicer”
Whenever we talk about the slicer, we mean the slicer that is covered in this Manual.
- “foodstuff”
We use the word “foodstuff” to refer to any kind of meat or other food that is usually sliced on a slicer.
- “meat table”
This is the table (usually on the right side of the slicer) on which you place the foodstuff to be sliced. On gravity-feed slicers the meat table is steeply angled.
- “meat grip”
The meat grip is the device that holds the foodstuff in position on the meat table. It is usually attached to the meat table and moves with the foodstuff as it is sliced.
- “Last Slice device”
This device (where fitted) is usually part of the meat grip and is used to hold small and hard-to-handle stubs of processed foodstuffs (particularly meats) so that they can be sliced to the last slice.
- “thickness control”
This is the mechanism by which you control the slice thickness, and is usually a large rotary control on the front of the machine. It may or may not be illuminated, depending on the individual slicer.
- “sharpener”
When we talk about the sharpener, we mean a built-in blade sharpening or grinding device that has a grinding stone and, optionally, a finishing stone.



- The Special Note flag
This is an upside-down triangle with an exclamation mark inside it. It appears in the left margin of the page, like this, whenever we want to draw your attention to an important point.



- The “No Hands” warning flag
This is a circle with the outline of a hand and a black bar through the hand. It appears wherever we want to warn you that either: you shouldn’t put your hands in or near a particular component; or that you must wear steel mesh protective gloves to carry out a particular procedure.



- The “Power” warning flags
There are two power warning flags. The first, a lightning bolt inside an upside-down triangle, is used whenever we want to remind and warn you that the slicer is connected to the mains power supply. The second warning flag is a circle with the outline of a lightning bolt and a black bar through the bolt. It appears to remind you that a particular procedure must be carried out with the power to the slicer turned off at the powerpoint and the slicer’s power plug disconnected from the powerpoint.



- The “Water” warning flags
This is a circle with the a diagram of a water hose spraying: you should never hose down or spray with water any component of this machine or its environment.



- The “Water Immersion” warning flags
This is a circle with the diagram of a hand dropping a machine into water: you should never immerse the machine into water.

SAFETY WARNINGS

This is an electrical device that uses mains (either single phase 240 Volt power. It uses a high speed rotating blade that is extremely sharp. You must be careful in how you handle the slicer at all times. The following special warnings must be complied with for your own safety and the safety of others.



THERE ARE NO USER-SERVICEABLE ELECTRICAL COMPONENTS IN THIS SLICER. ALL ELECTRICAL COMPONENTS ARE ELECTRICALLY ISOLATED TO EARTH AND ARE SEALED FOR YOUR SAFETY. YOU MUST NOT ATTEMPT TO TOUCH ANY ELECTRICAL COMPONENTS OR WIRES - YOU MAY EXPOSE YOURSELF TO THE RISK OF SERIOUS INJURY BY ELECTROCUTION.



UNLESS OTHERWISE INDICATED, ANY CLEANING OR MAINTENANCE PROCEDURE MUST BE PERFORMED WITH THE POWER TO THE SLICER SWITCHED OFF AND THE SLICER’S POWER CORD DISCONNECTED FROM THE POWERPOINT. FAILURE TO TURN OFF AND DISCONNECT POWER MAY RESULT IN SERIOUS INJURY CAUSED BY THE SLICER BEING ACCIDENTLY TURNED ON DURING CLEANING OR MAINTENANCE.

Slicer blades are extremely sharp and can cut through fingers and hands just as easily as products to be sliced.



WHENEVER YOU CARRY OUT ANY PROCEDURE THAT PLACES YOUR HANDS ON OR NEAR THE SLICER BLADE YOU MUST WEAR SUITABLE PROTECTIVE HAND COVERINGS SUCH AS STEEL MESH GLOVES TO PREVENT ACCIDENTAL INJURY FROM THE BLADE.

The Brice Model GPR Slicers

The Brice Model GPR slicers have been designed for environments where a range of different foodstuffs and slicing requirements must be met – from individual slices to larger batches.

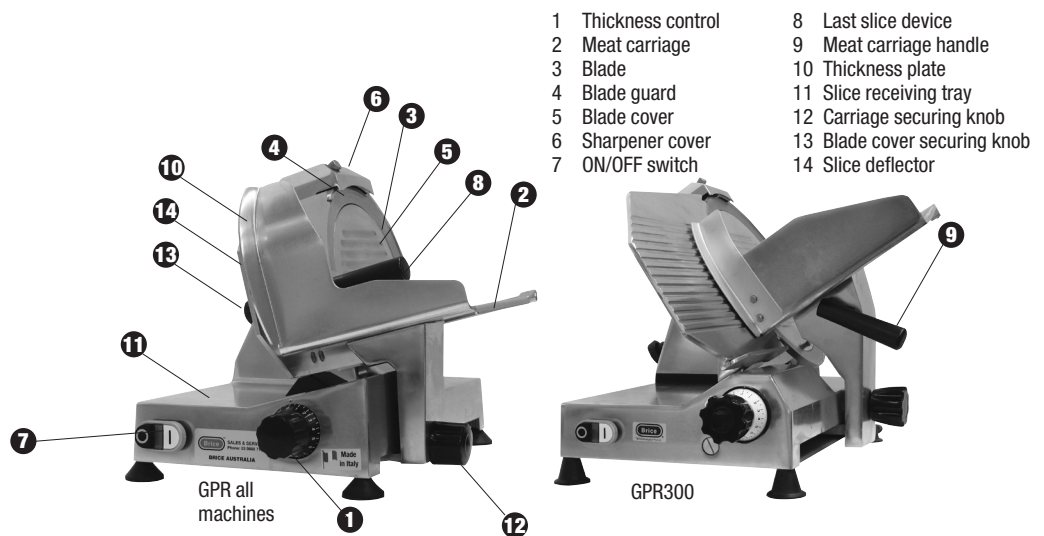
The Model GPR, one of the most versatile on the market is designed for precision slicing.

Available in three blade sizes (220mm, 250mm & 300mm).

- Manufactured in anodised aluminium and stainless steel to resist oxidation and corrosion;
- Constructed for easy cleaning;
- Thickness control knob allows for cutting of slices from 0 to 15mm;
- Last Slice device to minimise waste in slicing processed foodstuff stubs;
- Self-contained and built-in sharpening device with grinding and finishing stones;
- Forced ventilation to motor to prevent overheating;
- Low voltage switching;
- Blade ring guard;

Components of the model range

The following picture illustrates the main components of the slicer.



Installing the slicer

Positioning the slicer

No matter where you put the slicer, you must allow at least as much space as the overall dimensions indicate. Allowing an additional minimum of 20cm either side of the slicer will make access for cleaning and maintenance easier.

Make sure that the surface that you intend placing the slicer on is solid, flat, level, dry and smooth. Ideally, the surface should be between 80cm and 90cm high.

Electrical connections

The slicer connects to a single phase 240 Volts power supply using the power cord supplied. Simply connect the plug on the end of the power cord to the power point.

Cleaning and function check

Before you use the slicer, we recommend that you clean all exposed surfaces with a soft cloth that has been placed in clean warm water and light detergent and squeezed dry. This will remove any traces of machine oil, dirt or grit picked up during manufacture or storage.



Before you clean the machine, make sure that the thickness control is set to zero so that the slicer blade edge is shielded, and make sure that the power is turned off.



You should never hose down or spray with water any component of this machine or its environment.



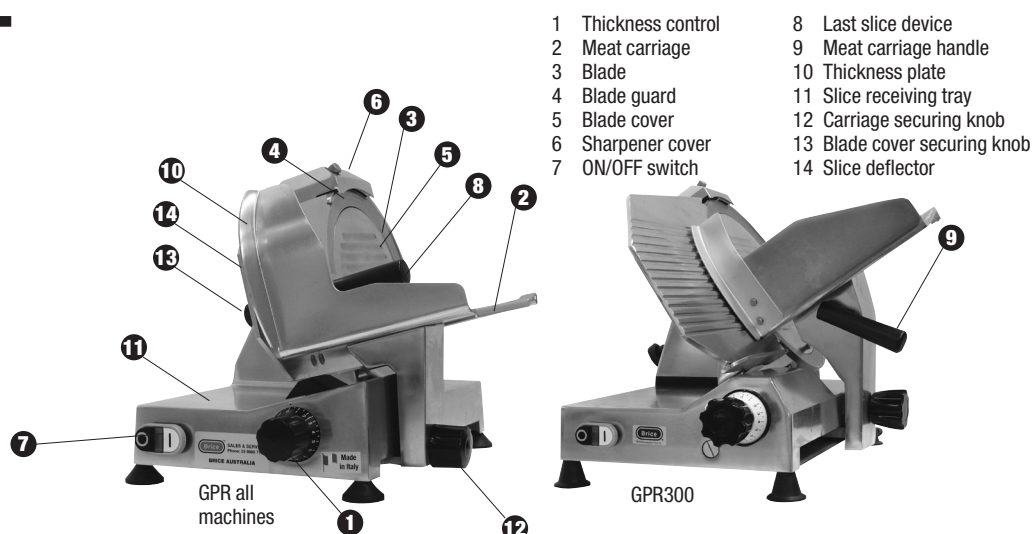
You should never immerse the machine into water.

Once the slicer is clean you can check that it is functioning correctly.

1. Make sure that the slicer is switched off at the front of the machine.
2. Ensure that all the supplied guards and blade shields are correctly fitted.
3. Check that the meat table carriage moves easily and that it does not stick at any point along its travel.
If the carriage is difficult to move or seems to stick now and then refer to the Maintenance section for instructions on lubrication.
4. Check that the meat grip moves freely along the length of its travel.
If the meat grip is difficult to move or seems to stick now and then refer to the Maintenance section for instructions on lubrication.
5. Check that the thickness control operates smoothly. **Be sure to return it to the zero mark before proceeding.**
6. Switch the slicer on at the front of the machine. Immediately the ON/OFF switch will light up, showing power is on, and the blade will spin in an anti-clockwise direction.
7. Switch off at the front of the machine.

Your slicer is now ready to use.

Operating the slicer



Things to keep in mind

1. The foodstuff should only be loaded onto the meat carriage with the thickness control set to zero and the power switched off at the control panel.
Aside from being essential to your safety, these conditions keep the foodstuff to be sliced (particularly if it is solid) from being accidentally knocked against the cutting edge of the blade, which could be damaged.
2. The recommended, and only safe way of moving the meat carriage during slicing operations is with the last slice device. The GPR300 is also fitted with a meat carriage handle.
3. The slicing movement should be done with a speed that is constant and appropriate to the density and/or hardness of the foodstuff to be sliced. The general rule-of-thumb is that the harder the foodstuff, the slower the slicing. Don't attempt to slice too quickly, as too rapid a stroke can tear the meat.
Following this rule will result in a slice with a good, clean appearance, without putting undue strain on either the cutting blade or the motor.
4. Sharpen the blade as soon as the sliced foodstuff begins to look ragged or roughened, or when the effort required to slice increases significantly. Refer to the Maintenance section for the correct procedure for blade sharpening.

Normal operation

Begin using the slicer by returning the thickness control (1) to zero and making sure that the meat carriage (2) is pulled to the front of the slicer.

1. Place the foodstuff on the meat carriage (2) with the side to be sliced touching the thickness plate (10).
2. Swing the meat grip/Last Slice device (8) over so that it rests on top of the foodstuff.
3. Set the desired thickness of slice using the thickness control (1).
4. Turn the slicer on at the front of the machine (7). Immediately the ON/OFF switch will light up, showing power is on, and the blade will spin in an anti-clockwise direction.
5. Grasp the last slice device (GPR220, GPR250) (8) or meat carriage handle (GPR300) (9) firmly and push the meat table away from you towards the back of the slicer. Once the slice has been cut, pull the meat table back towards you.
6. Repeat step 5 as often as required to obtain the number of slices needed.
7. When you have finished slicing, make sure that the meat table is pulled to the front of the slicer and turn machine off using the ON/OFF switch (7).

Using the last slice device

Cleanly slicing the last 1 or 2 centimetres of foodstuffs on a slicer without wastage can be difficult. This is particularly the case when slicing packaged foodstuffs with rounded-off ends (or stubs). The last slice device overcomes the problem.

1. When the foodstuff is sliced down to the last 1 or 2 centimetres, lift off the last slice device (8) and turn the foodstuff around so that the uncut end of the stub is pressed against the thickness plate (10).
2. Position the last slice device (8) behind the foodstuff so that the spikes of the last slice device press into the cut face of the foodstuff.
3. Continue slicing until the remaining foodstuff has been cut.

Cleaning the Slicer



This section deals with cleaning your slicer, including blade cleaning.

We recommend that, before cleaning or maintenance tasks are undertaken, the machine operator(s) receive some training from authorised Brice representatives, preferably during the installation phase.

Before carrying out cleaning or maintenance tasks, it is very important that:

1. **Power to the slicer is disconnected at the powerpoint; and**
2. **The thickness control is set to its “zero” position.**

You should never hose down or spray with water any component of this machine or its environment.

You should never immerse the machine into water.

Be very careful performing any cleaning or maintenance task that brings you close to, or in contact with, the slicer blade. Always perform these tasks with the appropriate protection - steel mesh safety gloves. The blade is very sharp and the risk of a cutting injury without proper protection or due care is high.

General Cleaning

The slicer has been designed and built for efficient and speedy cleaning to ensure hygienic operation.

Before using the slicer

1. Before the start of each cutting operation, and with the slicer switched off at the ON/OFF switch and disconnected from the powerpoint, wipe down the thickness plate, the meat carriage and the receiving tray to remove any residual material left from the last cutting operation.

At the end of the day

1. After the slicer has been used for the last time, turn the machine off at the ON/OFF switch and at the powerpoint, and disconnect the power cord.
2. Turn the carriage securing knob (12) anti-clockwise to release the meat carriage assembly, wash in a mild detergent and dry thoroughly.
3. With a cloth that has been placed in warm water and mild detergent and squeezed dry, wipe down all visible surfaces of the slicer.

Cleaning the Blade

After the machine has been cleaned as described above, you can now clean the slicer blade, itself.



You must wear appropriate hand protection, such as steel mesh safety gloves, for this procedure as it involves uncovering and touching the blade. You risk serious injury if you do not wear protective gloves.

1. With the meat carriage assembly removed, undo the blade cover securing knob (13) and lift the blade cover (5) straight off the blade.
2. Turn the slice deflector (14) to expose the back of the blade.
3. Clean the centre plate with a warm damp cloth.
4. The blade is now completely exposed. Wearing steel mesh protective gloves, wipe down the blade surfaces (front and back) using a warm, damp cloth.

5. Dry off the blade and lightly smear on some food grade oil using a soft cloth. Make sure that you are still wearing the steel mesh glove.
6. Replace the blade cover (5) so that the nut on the underside of the plate engages the blade centre.
7. While pressing down on the centre of the plate push and turn the blade cover securing knob (13) to engage it in the blade cover (5). Tighten the knob.
8. Replace the meat carriage assembly and tighten the securing knob.
Make sure that the edge of the meat carriage sits right up against the blade cover (5).
You may have to push the meat carriage back to the end of its travel to seat it correctly.

The slicer is now clean and ready for use.

The cleaning schedule

Cleaning Schedule

How frequently the slicer is cleaned will depend on how heavily the machine is used. However, we recommend that you adopt the following cleaning schedule as a MINIMUM requirement to maintain hygiene.

	Before first use	After every use	Every half day	After last use
Wipe down slicing guide, meat table & centre plate		✓		
Wipe down all exposed surfaces (no disassembly)	✓		✓	
Clean all surfaces including blade (disassemble machine)			✓	✓

Maintenance



This section deals with routine maintenance for your slicer, including blade sharpening.

We recommend that, before cleaning or maintenance tasks are undertaken, the machine operator(s) receive some training from authorised Brice representatives, preferably during the installation phase.

Before carrying out cleaning or maintenance tasks, it is very important that:

1. power to the slicer is disconnected at the powerpoint; and
2. the thickness control is set to its “zero” position.

Be very careful performing any cleaning or maintenance task that brings you close to, or in contact with, the slicer blade. Always perform these tasks with the appropriate protection - steel mesh safety gloves. The blade is very sharp and the risk of a cutting injury without proper protection or due care is high.

Routine Maintenance

The robust design of the slicer means that there is very little required in the way of routine maintenance. Generally, the only maintenance required is cleaning (discussed in the previous section) and lubrication of the meat carriage and last slice device carriage bars. Blade sharpening is only infrequently required, when the blade no longer slices cleanly.

Cleaning

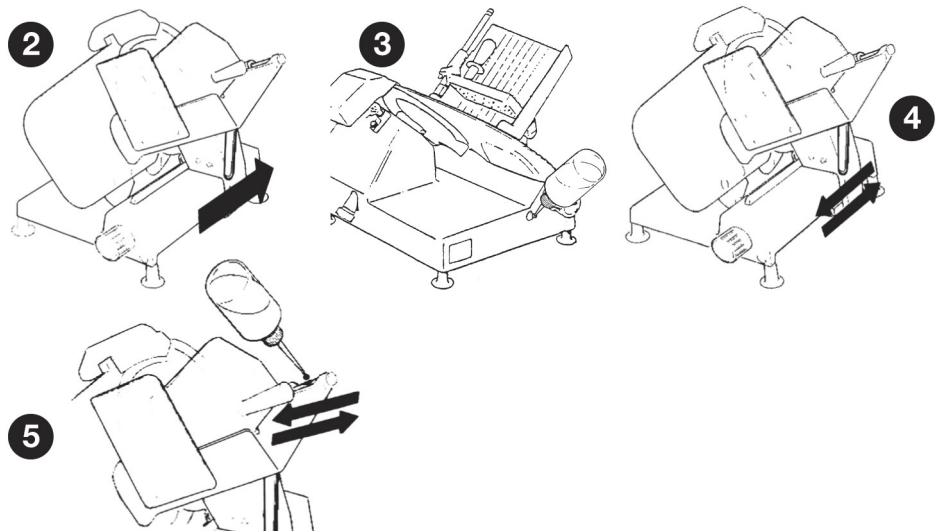
Normal cleaning, as specified in the previous section and in accordance with the recommended schedule, is all that is required to maintain the external surfaces of the slicer.

We recommend that you clean the machine prior to any other maintenance operation so that all surfaces are free of residual food and grease. This makes the machine easier and safer to handle.

Lubrication

1. Turn the slicer off at the powerpoint, and disconnect the power cord.
2. Push the meat carriage all the way to the rear-most point of its travel.
3. Locate the oiling point at the front of the machine and slide its cover clear. Place 3 – 6 drops of oil in the oiling point.
4. Slide the meat carriage back and forward several times to spread the oil.
5. Also deposit two or three drops of oil directly on the last slice device carriage bar. Move the last slice device up and down along the carriage bar to spread the oil.

Lubricating the meat table carriage bar



Blade sharpening

The self-contained blade sharpener (with its own grinding and finishing stones) makes blade sharpening a simple task.

However, because you must clean the blade before sharpening, you must wear protective steel mesh gloves during this operation.



Part of this operation requires the slicer to be switched on with the blade rotating. You should take the utmost care during that phase of the operation.

The slicer blade requires regular sharpening to work cleanly and efficiently. How often you sharpen the blade will depend on the condition of the blade after use and the type of products being sliced.

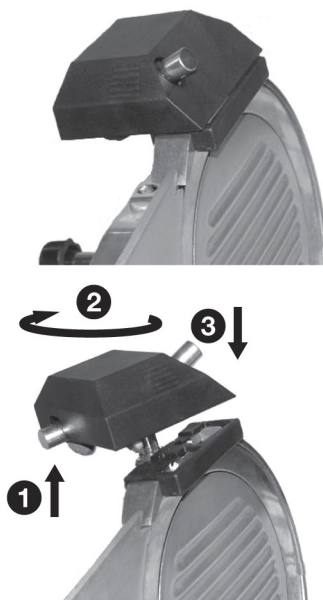
You should keep in mind the following things when sharpening the blade:

1. The blade should only be sharpened after the slicer has been cleaned as specified in the previous section; and
2. The sharpener cannot function properly once the blade diameter has been reduced by more than 10mm. Contact your authorised Brice technician to arrange for a replacement once the blade wears to this point.

The self-contained sharpener

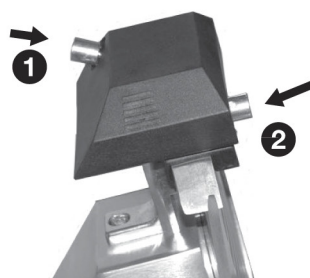
Positioning the sharpener

Lift (1) turn the sharpener 180° (2) and lower (3) to engage the blade.



Using the sharpener

Press the Grinding Wheel button (1) for ten seconds. Release Grinding Wheel button and press the Finishing Wheel button (2) for five seconds.



To sharpen the blade:

1. Clean the blade, removing any greasy residue.
2. Turn the slicer off at the powerpoint.
3. Rotate the slice thickness control to zero to make sure that the blade is covered by the thickness plate.
4. Undo the sharpener locking knob at the back of the sharpener (not shown) and lift the sharpener housing.
5. Rotate the device 180° and lower it over the blade. See the illustration at the left for how to do this. The sharpener is now correctly positioned.
6. Push the power switch to start the machine. The blade will begin turning.
7. Press the grinding wheel button to move the grinding wheel against the spinning blade. Hold the grinding wheel against the blade for about 10 seconds. See the bottom left illustration for more information.
8. Release the grinding wheel, and press the finishing wheel button to move the finishing wheel against the blade. Hold against the blade for a further 5 seconds. **DO NOT DEPRESS HONING AND GRINDING WHEELS AT THE SAME TIME.**
9. Turn off the slicer by pressing the power switch.
10. Only **AFTER** the blade has stopped turning, return the sharpener to its normal position by rotating 180° and tighten the sharpener locking knob.

Troubleshooting

This section deals with the problems you may find when using the Model GPR, and the methods and procedures for solving them quickly and easily.

Mechanical or electrical problems during operation

<i>Indication</i>	<i>Problem</i>	<i>Solution</i>
Machine does not operate	Poor/no electrical current Fuse blown (if fitted) Other parts of machine are defective	Notify Brice service Replace fuse Notify Brice service
Machine slices poorly	Blade is not sharp enough	Sharpen the blade
Carriage does not run smoothly	Slide bar requires oiling	Notify Brice service
The meat grip does not slide smoothly	The meat grip is dirty or requires oiling	Clean and oil meat grip slide bar
Blade stops rotating whilst slicing meat	Motor drive belt is loose or broken	Notify Brice Service
Motor runs but blade does not rotate	Motor drive belt is cracked or broken	Notify Brice Service



Copyright Information

Copyright © 2013 Brice Australia Pty. Ltd.

This document may not be reproduced, in whole or in part, by any means without the prior express written permission of the copyright owner.

Brice and the BRICE logotype are trademarks of Brice Australia Pty. Ltd.

Printed in Australia